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## **Claims**

What is claimed is:

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A method of detecting sperm in a test sample, said method comprising:
 obtaining a test sample;

contacting said test sample with a composition comprising at least one antibody directed against a sperm-specific antigen, wherein said at least one antibody is labeled with a reporter molecule; and

detecting said at least one antibody with an assay which measures said reporter molecule, wherein detection of said reporter molecule indicates the presence of sperm in said test sample.

- 2. The method of claim 1, wherein at least two different antibodies are used.
- 3. The method of claim 2, wherein at least one of said two different antibodies is directed against a sperm surface antigen.
- 4. The method of claim 3, wherein said antibody is directed against a sperm headantigen.
  - 5. The method of claim 2, wherein at least one of said antibodies is directed against a sperm-specific nuclear antigen.
- 6. The method of claim 1, wherein said reporter is measured using an assay selected from a group consisting of a colorimetric assay, a chemiluminescence assay, and a fluorescence assay.
- 7. The method of claim 2, wherein each of the at least two different antibodies is30 labeled with different reporter molecules.
  - 8. The method of claim 2, wherein each of the at least two different antibodies is directed against different sperm-specific antigens.

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9. The method of claim 1, wherein said sperm-specific antigen is selected from the group consisting of SEQ ID NO:1 (SP-10), SEQ ID NO:2 (CABYR), SEQ ID NO:3 (ESP), SEQ ID NO:4 (SAMP32), SEQ ID NO:5 (SPAN-X), SEQ ID NO:6 (AKAP), CBP86, SAMP-14, HUP1N, and HUP2B.

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- 10. The method of claim 1, wherein said at least one antibody is selected from the group consisting of 3C6, 3A4, 3A5, A9, MHS-10, and 8G8G8G8.
- 11. The method of claim 1, wherein said test sample is a post-coital swab.
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- 12. A composition for detecting sperm in a sample, said composition comprising at least one antibody directed against a sperm-specific antigen, wherein said antibody is labeled with a reporter molecule.
- 13. The composition of claim 12, said composition comprising at least two antibodies directed against a sperm-specific antigen, wherein each of the at least two antibodies is directed against different sperm-specific antigens.
- 14. The composition of claim 12, wherein said sperm-specific antigen is selected
  20 from the group consisting of SEQ ID NO:1 (SP-10), SEQ ID NO:2 (CABYR), SEQ
  ID NO:3 (ESP), SEQ ID NO:4 (SAMP32), SEQ ID NO:5 (SPAN-X), SEQ ID NO:6
  (AKAP), CBP86, SAMP-14, HUP1N, and HUP2B.
- 15. The composition of claim 12, wherein said at least one antibody is selected from the group of antibodies consisting of 3C6, 3A4, 3A5, A9, MHS-10, and 8G8G8G8.
  - 16. A method of purifying sperm DNA from a test sample, said method comprising: obtaining a test sample;
- contacting said test sample with a composition comprising at least one antibody directed against a sperm-specific antigen, wherein said antibody is linked to a support;

allowing whole sperm or sperm nuclei to bind to said at least one antibody; washing away material which does not bind to the antibody or is non-specifically bound to the antibody;

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contacting the bound material with a lysis buffer; recovering said sperm DNA.

- 17. The method of claim 16, wherein said recovered sperm DNA is amplified bypolymerase chain reaction.
  - 18. The method of claim 16, wherein at least two antibodies are used.
- 19. The method of claim 16, wherein each of the at least one antibodies is directlylinked to the support.
  - 20. The method of claim 16, wherein the support is selected from the group consisting of chromatographic media and magnetic particles.
- 15 21. The method of claim 16, wherein said method is automated.

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- 22. The method of claim 16, wherein said test sample is at least 24 hours old.
- 23. The method of claim 22, wherein said test sample is at least 72 hours old.
- 24. The method of claim 16, wherein said at least one antibody is labeled with a reporter molecule.
- 25. The method of claim 16, wherein said at least one antibody is selected from the group consisting of 3C6, 3A4, 3A5, A9, MHS-10, and 8G8G8G8.
  - 26. The method of claim 16, wherein said sperm-specific antigen is selected from the group consisting of SEQ ID NO:1 (SP-10), SEQ ID NO:2 (CABYR), SEQ ID NO:3 (ESP), SEQ ID NO:4 (SAMP32), SEQ ID NO:5 (SPAN-X), SEQ ID NO:6 (AKAP), CBP86, SAMP-14, HUP1N, and HUP2B.
  - 27. The method of claim 16, wherein said test sample is a forensic sample.
  - 28. The method of claim 27, wherein said forensic sample is a post-coital swab.